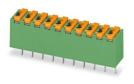
1891124

https://www.phoenixcontact.com/us/products/1891124



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB terminal block, nominal current: 4 A, rated voltage (III/2): 250 V, nominal cross section: 0.5 mm², number of potentials: 8, number of rows: 1, number of positions per row: 8, product range: FK-MPT 0,5/..-V, pitch: 3.5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard

Your advantages

- · Time saving push-in connection, tools not required
- · Defined contact force ensures that contact remains stable over the long term
- · Intuitive operation due to color-coded actuating push button
- · Potentials can be easily looped through ideal for BUS applications
- · Small component size for applications where space is at a premium
- · Vertical connection enables multi-row arrangement on the PCB

Commercial data

Item number	1891124
Packing unit	50 pc
Minimum order quantity	50 рс
Sales key	AA11
Product key	AAKBCB
Catalog page	Page 403 (C-1-2013)
GTIN	4017918169640
Weight per piece (including packing)	3.14 g
Weight per piece (excluding packing)	2.71 g
Customs tariff number	85369010
Country of origin	IN



https://www.phoenixcontact.com/us/products/1891124

Technical data

Product properties

Туре	PC termination block
Product line	COMBICON Terminals XS
Product type	Printed circuit board terminal
Product family	FK-MPT 0,5/V
Number of positions	8
Pitch	3.5 mm
Number of connections	16
Number of rows	1
Mounting flange	without
Number of potentials	8
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Nominal current I _N	4 A
Nominal voltage U _N	250 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV

Connection data

Conductor connection	
Connection method	Push-in spring connection
Conductor cross section rigid	0.12 mm ² 0.5 mm ²
Conductor cross section AWG	26 20
Stripping length	6.5 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

Material specifications

Material data - contact	
Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Steel/copper

PHŒN

X



1891124

https://www.phoenixcontact.com/us/products/1891124

Tin-plated
Tin (5 - 7 μm Sn)
Copper (2 - 3 µm Cu)
Tin (5 - 7 μm Sn)
Copper (2 - 3 µm Cu)
green (6021)
PBT
Illa
225
V0
orange (2003)
POM
1
600

Dimensions

Dimensional drawing	h h b b b
Pitch	3.5 mm
Width [w]	28.5 mm
Height [h]	13 mm
Length [I]	7 mm
Installed height	9.5 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.35 x 0.9 mm

ΗB

PCB design

Hole diameter	1 mm
---------------	------

Mechanical tests

Test for conductor	damage and slackening
--------------------	-----------------------

Flammability rating according to UL 94

Specification	IEC 60999-1:1990-05
Result	Test passed
Pull-out test	
Pull-out test Specification	IEC 60999-1:1990-05



1891124

https://www.phoenixcontact.com/us/products/1891124

setpoint/actual value	0.5 mm² / solid / > 30 N
ectrical tests	
Temperature-rise test	
Specification	IEC 60998-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance	
Specification	IEC 60512-2:1985-00
Insulation resistance, neighboring positions	10 ¹² Ω
Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	Illa
Comparative tracking index (IEC 60112)	CTI 225
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	250 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	2.5 mm
Rated insulation voltage (II/2)	250 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	2.5 mm

Environmental and real-life conditions

Vibration test			
Specification	IEC 60068-2-6:1995-03		
Frequency	10 - 150 - 10 Hz		
Sweep speed	1 octave/min		
Amplitude	0.35 mm (10 Hz 60.1 Hz)		
Sweep speed	5g (60.1 Hz 150 Hz)		
Test duration per axis	2.5 h		
Ambient conditions			
Ambient temperature (operation)	-40 °C 100 °C (Depending on the current carrying capacity/derating curve)		
Ambient temperature (storage/transport)	-40 °C 70 °C		
Relative humidity (storage/transport)	30 % 70 %		
Ambient temperature (assembly)	-5 °C 100 °C		

Packaging specifications

1891124 https://www.phoenixcontact.com/us/products/1891124



Type of packaging

packed in cardboard



https://www.phoenixcontact.com/us/products/1891124



Classifications

ECLASS

ECLASS-12.0 27460101	ECLASS-11.0	27460101
	ECLASS-12.0	27460101
ECLASS-13.0 27460101	ECLASS-13.0	27460101

ETIM

	ETIM 9.0	EC002643	
UNSPSC			
	UNSPSC 21.0	39121400	

1891124

https://www.phoenixcontact.com/us/products/1891124

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com